

ABSTRACT

A coated member comprising a substrate of Mo, Ta, W,
5 Zr or carbon and a coating of rare earth-containing oxide
including a surface layer having a Vickers hardness of at
least 50; or a coated member comprising a substrate having a
coefficient of linear expansion of at least 4×10^{-6} (1/K) and a
coating of rare earth-containing oxide thereon is heat
10 resistant and useful as a jig for use in the sintering of
powder metallurgical metal, cermet and ceramic materials.